

SHEET 1 of 7

FIG. 1 (PRIOR ART)

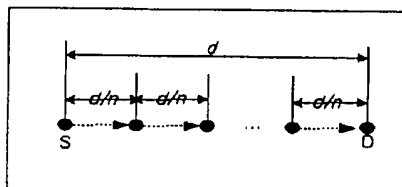


FIG. 2 (PRIOR ART)

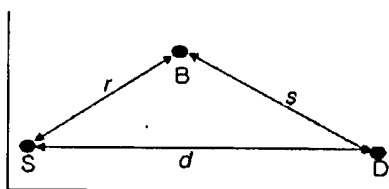
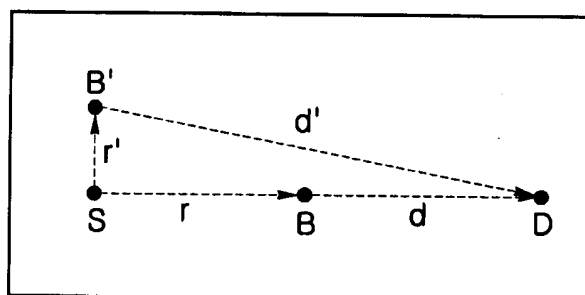
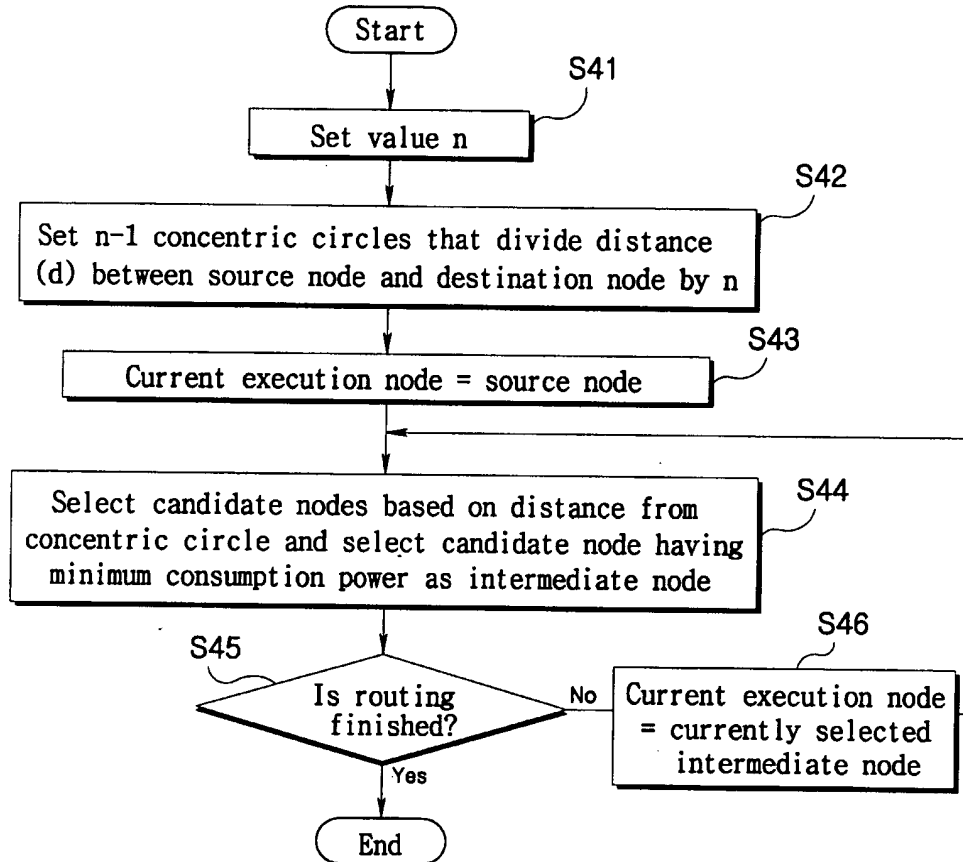


FIG. 3 (PRIOR ART)



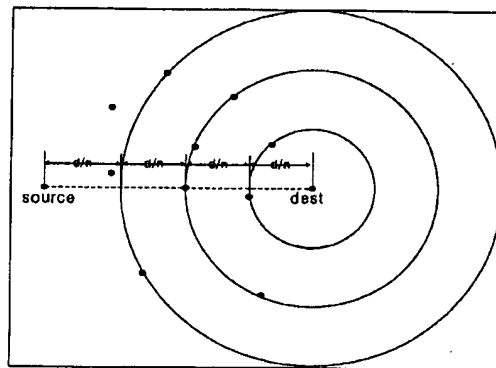
SHEET 2 of 7

FIG. 4



SHEET 3 of 7

FIG. 5



SHEET 4 of 7

FIG. 6

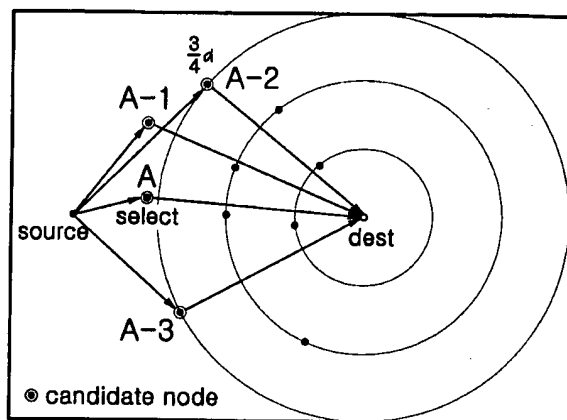
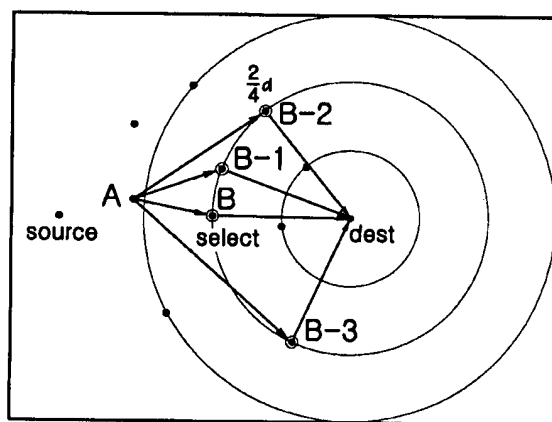


FIG. 7



SHEET 5 of 7

FIG. 8

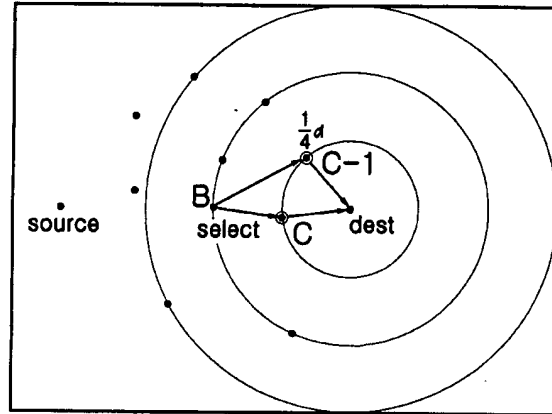


FIG. 9

S = Source node
D = Destination node
d = Distance from source to destination
N = Optimal division
B = Next node
C_i = Set of candidate nodes

$i \leftarrow 1$;
do
if (Neighbor of the S is located interval from $\frac{d}{N}(N-i) - \frac{d}{2N}$ to $\frac{d}{N}(N-i) + \frac{d}{2N}$)
C_i includes neighbor of the S ;
Selects the B among the C_i that minimizes the $p(S,D) = u(r) + v(s)$
 $i \leftarrow i+1$;
S \leftarrow B ;
while ($i \leq N$)

Application of Choi et al.
METHOD OF POWER SAVING ROUTING IN WIRELESS NETWORKS

SHEET 6 of 7

FIG. 10

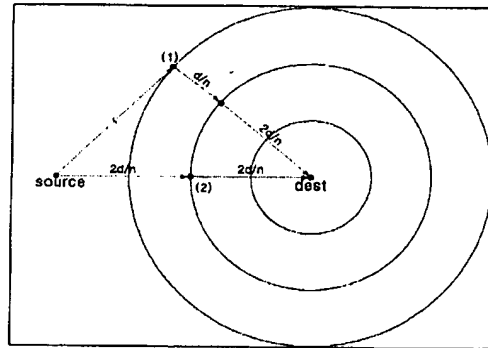


FIG. 11

S = Source node
 D = Destination node
 d = Distance from source to destination
 N = Optimal division
 B = Next node
 C_i = Set of candidate nodes

```

i ← 1 ;
do
    if ( Neighbor of the S is located interval from  $\frac{d}{N}(N-i) - \frac{d}{2N}$  to  $\frac{d}{N}(N-i) + \frac{d}{2N}$ 
        and satisfies the equality  $u(r) + u(d/N) \leq u(2d/N)$ 
        Ci include neighbor of the S ;
    if (Ci ≠ NULL)
        Select the B among the Ci that minimizes the  $p(S, D) = u(r) + u(s)$ 
    else
        Select B near  $d - \frac{i+1}{N} \times d$  that minimizes  $p(S, D) = u(r) + u(s)$ 
        i ← i+1 ;
    i ← i+1 ;
    S ← B ;
while (i ≤ N)
    
```

SHEET 7 of 7

FIG. 12

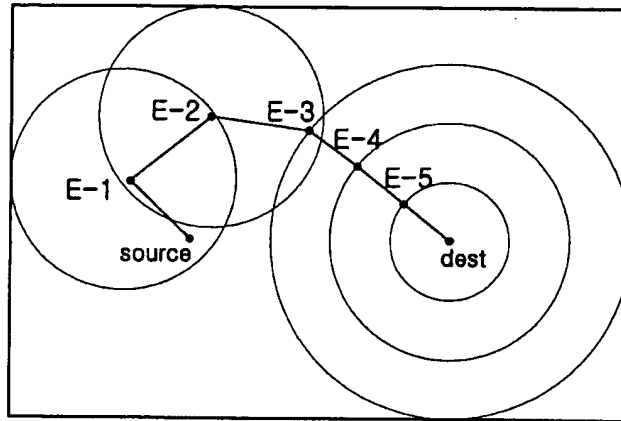


FIG. 13

```

S = Source node
D = Destination node
d = Distance from source to destination
N = Optimal division
B = Next node
Ci = Set of candidate nodes

i ← 1 ;
do
    if ( Neighbor of the S is located interval from  $\frac{d}{N}(N-i) - \frac{d}{2N}$  to  $\frac{d}{N}(N-i) + \frac{d}{2N}$ 
        and satisfies the equality  $u(r) + u(d/N) \leq u(2d/N)$ 
        Ci include neighbor of the S ;
    if (Ci != NULL)
        Selects the B among the Ci that minimizes the  $p(S, D) = u(r) + u(s)$ 
    else
        Selects B near  $d - \frac{i+1}{N} \times d$  that minimizes  $p(S, D) = u(r) + u(s)$ 
        i ← i+1 ;
    i ← i+1 ;
    if (B = NULL)
        Selects the B among neighbor of S that minimizes  $p(S, D) = u(r) + u(s)$ 
        Recalculate optimal N ;
        i ← 1 ;
    S ← B ;
while (i ≤ N)
    
```